

2024-04-25
2023-3946

GROUP	12	ACARICIDE
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VENDEX[®] 50W
WETTABLE POWDER MITICIDE

For ornamental plants, nursery stock and greenhouse cucumbers and tomatoes.

750 g

CAUTION (skull and crossbones in triangle) POISON

COMMERCIAL-AGRICULTURAL

READ THE LABEL BEFORE USING
KEEP OUT OF REACH OF CHILDREN

ACTIVE INGREDIENT: Fenbutatin oxide 50%

REGISTRATION NO. 16309 PEST CONTROL PRODUCTS ACT

PLANT PRODUCTS INC.
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GENERAL DIRECTIONS

Vendex 50W Wettable Powder Miticide can be used to control twospotted spider and spruce spider mites on ornamental plants and nursery stock (greenhouse and outdoors). It also provides effective control of twospotted spider mites infesting greenhouse cucumbers and tomatoes.

Vendex 50W Wettable Powder Miticide is not highly injurious to beneficial mites and is non-toxic to honeybees. This product can be used in conventional hydraulic sprayers or in low-volume ground applicators. Mix Vendex 50W Wettable Powder Miticide with water by vigorous agitation; agitate the mixture while spraying. If allowed to stand, re-agitate before use. Apply this product only as recommended on this label.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

DIRECTIONS FOR USE AND APPLICATIONS

Vendex 50W Wettable Powder Miticide can be used as follows:

ORNAMENTAL PLANTS AND NURSERY STOCK

To control twospotted spider and spruce spider mites on ornamental plants and nursery stock (greenhouse and outdoors), apply 50 to 100 g Vendex 50W Wettable Powder Miticide in 100L of water. Begin applications when mites appear and repeat as necessary to maintain control. Use the higher rate only to control high mite populations.

DO NOT APPLY BY AIR

GREENHOUSE CUCUMBER AND TOMATOES

To control twospotted spider mites on greenhouse cucumbers and tomatoes apply 50 g Vendex 50W Wettable Powder Miticide in 100 L of water. The addition of a suitable spreader-sticker will usually result in superior mite control on these crops. Begin applications when mites appear and repeat as necessary to maintain control. Do not apply to cucumbers within 3 days of harvest or to tomatoes within 5 days of harvest.

NOTE: 1. Although the safety of Vendex 50W Wettable Powder Miticide has been demonstrated on a great number of varieties of the more common ornamental plants and on varieties of greenhouse cucumber and tomatoes an application should be made to a few plants before proceeding to an overall spray program. Under normal greenhouse conditions any plant damage that might occur should become evident within 48 hours after application.

2. Thorough coverage of all foliage, especially the under surface of leaves, is essential. This will require an upward adjustment of spray volume and pressure as the density of foliage increases with plant growth.

3. Do not spray when plants are under stress (e.g. newly transplanted cuttings) or when the temperature of the greenhouse is greater than 32°C. Evening applications are preferable.

4. Apply only up to the tight bud stage of chrysanthemums and the pre-bract stage of poinsettias.

Do not enter or allow entry into treated areas during the restricted-entry interval (REI) of 12 hours. For hand activities involving high foliar contact, do not enter treated areas to perform such work until at least 48 hours have passed since application.

Field Sprayer Application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification. Boom height must be 60 cm or less above the crop or ground.

Spray Buffer Zones

Use of the following spray methods or equipment **DO NOT** require a spray buffer zone: hand-held or backpack sprayer, inter-row hooded sprayer, spot treatment, soil drench, and soil incorporation.

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of application	Crop	Spray Buffer Zones (metres) Required for the Protection of:			
		Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:	
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1m
Field sprayer*	Ornamentals and nursery stock	30	4	10	5

* For field sprayer application, spray buffer zones can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the canopy, the labelled spray buffer zone can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the canopy, the labelled spray buffer zone can be reduced by 30%.

When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

This product may be tank mixed with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Plant Products Inc at 1-519-326-9037 for information before applying any tank mix that is not specifically recommended on this label.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that Vendex 50W Wettable Powder Miticide contains

a Group 12 acaricide. Any mite population may contain individuals naturally resistant to Vendex 50W Wettable Powder Miticide and other Group 12 acaricides. The resistant individuals may dominate the mite population if this group of acaricides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed. To delay acaricide resistance:

- Where possible, rotate the use of Vendex 50W Wettable Powder Miticide or other Group 12 acaricides with different groups that control the same pests.
- Use tank mixtures with acaricides from a different group that is effective on the target pest, when such use is permitted.
- Acaricides use should be based on an IPM program that includes scouting, recordkeeping, and considers cultural, biological and other chemical control practices.
- Monitor treated pest populations for resistance development.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact Plant Products Inc. at 519-326-9037.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. Corrosive. Causes eye damage and skin irritation. Do not get in eyes, on skin or on clothing. Harmful if swallowed. Avoid contamination of food. Avoid breathing dust or spray mist. Do not graze or feed animals on treated cover crops. Users should wash hands thoroughly with soap and water before eating, drinking, chewing gum, using tobacco, or using the toilet.

Wear long-sleeve shirt and long pants, shoes plus socks, chemical resistant gloves, during application. In addition wear a NIOSH approved respirator and goggles during application with handheld equipment, when mixing and loading, cleanup or repair. In addition, during overhead application wear chemical resistant headgear. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly with soap and water and put on clean clothing. Users should remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly with soap and water and change into clean clothing.

It is recommended that this product not be applied in a way that will contact workers or other persons, either directly or through drift. Only handlers wearing personal protective equipment may be in the area during application.

ENVIRONMENTAL PRECAUTIONS

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

Do not allow releases, effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters. For guidance contact the provincial Regulatory Agency.

TOXIC to aquatic organisms. Keep out of lakes, ponds and streams. Observe spray buffer zones specified under DIRECTIONS FOR USE.”

To reduce runoff from treated areas into aquatic habitats, consider the characteristics and

conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to: heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g. soils that are compacted, fine textured, or low in organic matter such as clay).

Avoid application of this product when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.

FIRST AID

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

If in eyes: Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression, and convulsion may be needed.

STORAGE

Store product in original container only, away from other pesticides, fertilizer, food or feed. Not for use or storage in or around the home. Keep container closed.

DISPOSAL

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

NOTICE TO USER

This pest control product to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.